

2015 29th Brazilian Symposium on Software Engineering (SBES 2015)

**Belo-Horizonte-MG, Brazil
21 – 26 September 2015**



**IEEE Catalog Number: CFP1568L-POD
ISBN: 978-1-4673-9273-0**

2015 29th Brazilian Symposium on Software Engineering

SBES 2015

Table of Contents

Foreword.....	viii
Organizing Committee.....	x
Technical Committee.....	xi
External Reviewers.....	xiv
Invited Talks.....	xv

Verification, Validation, and Testing

Investigating the Correspondence between Mutations and Static Warnings	1
<i>Cláudio Antônio De Araújo, Márcio Eduardo Delamaro, José Carlos Maldonado, and Auri Marcelo Rizzo Vincenzi</i>	
OntoQAI: An Ontology to Support Quality Assurance Inspections	11
<i>João Pablo Silva Da Silva, Pablo Dall'Oglio, Sérgio Crespo Coelho Da Silva Pinto, Ig Ibert Bittencourt, and Sérgio Luis Sardi Mergen</i>	
A Mutation and Multi-objective Test Data Generation Approach for Feature Testing of Software Product Lines	21
<i>Rui Angelo Matnei Filho and Sílvia Regina Vergilio</i>	

Software and Business Processes

MSECO-SUP: Support Process in Mobile Software Ecosystems	31
<i>Awdren De Lima Fontão, Rodrigo Pereira Dos Santos, and Arilo Claudio Dias Neto</i>	
An Experiment on Process Model Understandability Using Textual Work Instructions and BPMN Models	41
<i>Raphael De A. Rodrigues, Márcio De O. Barros, Kate Revoredo, Leonardo G. Azevedo, and Henrik Leopold</i>	
Towards an Approach Matching CMD and DSR to Improve the Academia-Industry Software Development Partnership: A Case of Agile and UX Integration	51
<i>Joelma Choma, Luciana A.M. Zaina, and Tiago Silva Da Silva</i>	

Harmonizing MPS.BR and CERTICS: A Case Study in a Maturity Level F Organization	61
<i>Jean Carlo Rossa Hauck, Igor Almeida, Ricardo Araujo, Júnior Dymow, and Moacyr Franco Neto</i>	

Requirements Engineering

Formalization of Mapping Rules from iStar to Class Diagram in UML	71
<i>Josenildo Melo, Aêda Sousa, Celso Agra, José Júnior, Jaelson Castro, and Fernanda Alencar</i>	
Eliciting Requirements Using Personas and Empathy Map to Enhance the User Experience	80
<i>Bruna Ferreira, Tayana Conte, and Simone Diniz Junqueira Barbosa</i>	
Analysis of Scenarios with Petri-Net Models	90
<i>Edgar Sarmiento, Julio Cesar Sampaio Do Prado Leite, and Eduardo Almentero</i>	

Software Maintenance

Predicting Change Propagation from Repository Information	100
<i>Igor Scaliante Wiese, Reginaldo Ré, Igor Steinmacher, Rodrigo Takashi Kuroda, Gustavo Ansaldi Oliva, and Marco Aurélio Gerosa</i>	
A Method to Derive Metric Thresholds for Software Product Lines	110
<i>Gustavo Andrade Do Vale and Eduardo Magno Lages Figueiredo</i>	
On the Conceptual Cohesion of Co-Change Clusters	120
<i>Marcos César De Oliveira, Rodrigo Bonifácio De Almeida, Guilherme N. Ramos, and Márcio Ribeiro</i>	
A Concern Visualization Approach for Improving MATLAB and Octave Program Comprehension	130
<i>Ivan De M. Lessa, Glauco De F. Carneiro, Miguel P. Monteiro, and Fernando Brito e Abreu</i>	

Open-source, Model-driven, and Agile Methods

Automatic Spreadsheet Generation from Conceptual Models	140
<i>Léo Antunes, Alexandre Corrêa, and Márcio Barros</i>	
Evaluating Collaborative Practices in Acquiring Programming Skills: Findings of a Controlled Experiment	150
<i>Bernardo Estácio, Roberto Oliveira, Sabrina Marczak, Marcos Kalinowski, Alessandro Garcia, Rafael Prikladnicki, and Carlos Lucena</i>	
Increasing the Self-Efficacy of Newcomers to Open Source Software Projects	160
<i>Igor Steinmacher, Igor Wiese, Tayana Uchoa Conte, and Marco Aurélio Gerosa</i>	
Influence of the Review of Executed Activities Utilizing Planning Poker	170
<i>Andre Augusto Tissot, Maria Cláudia Figueiredo Pereira Emer, and Laudelino Cordeiro Bastos</i>	

Position Papers

Challenges in Analyzing Software Documentation in Portuguese	179
<i>Christoph Treude, Carlos A. Prolo, and Fernando Figueira Filho</i>	
Why Statically Estimate Code Coverage is So Hard? A Report of Lessons Learned	185
<i>Maurício F. Aniche, Gustavo A. Oliva, and Marco A. Gerosa</i>	
A Bayesian Network Model to Assess Agile Teams' Teamwork Quality	191
<i>Arthur Silva Freire, Raissa Matias da Silva, Mirko Perkusich, Hyggo Almeida, and Angelo Perkusich</i>	
Author Index	197